

VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP -- AMMONIUM HYDROXIDE --  
6810-00-584-3793

===== Product Identification =====

Product ID:AMMONIUM HYDROXIDE

MSDS Date:05/15/1992

FSC:6810

NIIN:00-584-3793

MSDS Number: BRMGF

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP

Address:8201 S 212TH ST

City:KENT

State:WA

ZIP:98032

Country:US

Info Phone Num:206-872-5000

Emerg

ency Phone Num:800-424-9300

CAGE:0HVJ1

=== Contractor Identification ===

Company Name:VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP

Address:8201 S 212TH ST

Box:City:KENT

State:WA

ZIP:98032

Country:US

Phone:206-872-5000

CAGE:0HVJ1

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:1600 NORTON BLDG. 801 2ND AVENUE

Box:City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Phone:206-447-5911/800-424-9300(CHEMTREC)

CAGE:87664

===== Composition/Information on Ingredients =====

Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Other REC Limits:NONE SPECIFIED

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL RAT LD50 350 MG/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION MAY CAUSE

RESPIRATORY IRRITATION. CONTACT MAY CAUSE SKIN AND EYE IRRITATION

OR BURNS. INGESTION MAY CAUSE SEVERE GI TRACT

DISTURBANCES/IRRITATION. CHRONIC: NO INFORMATION FOUND.

Explanation of Carcinogenicity:AMMONIUM HYDROXIDE IS NOT LISTED AS A  
CARCINOGEN BY NTP OR IARC; NOT REGULATED BY OSHA.

Effects of Overexposure:INHALED: COUGHING, WHEEZING, SNEEZING,  
TIGHTNESS IN CHEST, SORE THROAT, LABORED BREATHING, LARYNGITIS,  
PULMONARY EDEMA, CHEST PAINS, PNEUMONITIS. EYES: REDNESS, BURNING,  
TEARING, PAIN, GLAUCOMA, IRIS ATROPHY, CORNEAL SCARS. SKIN:

BURNS,

REDNESS, PAIN. INGESTED: PAIN IN MOUTH, CHEST, AND ABDOMEN,  
COUGHING, VOMITING

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING EYE

DISORDERS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE  
TO THE EFFECTS OF THIS MATERIAL.

===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION IMMEDIATELY.EYE/SKIN: IMMEDIATELY FLUSH  
WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN.

INHALED:REMOVE TO FRESH A

IR & PROVIDE OXYGEN/ARTIFICIAL RESPIRATION

IF NEEDED. ORAL : DO NOT INDUCE VOMITING. IF CONSCIOUS,GIVE WATER.  
CALL A PHYSICIAN IMMEDIATELY.

===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:16

Upper Limits:27

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING

SURROUNDING FIRE. USE WATER SPRAY TO BLANKET FIRE, COOL FIRE  
EXPOSED CONTAINERS

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WITH  
FULL FACE

PIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

===== Accidental Release Measures =====

Spill Release Procedures:VENTILATE AND EVACUATE AREA. ISOLATE AND DENY ENTRY. WEAR PROPER PRETECTIVE CLOTHING/EQUIPMENT. CONTAIN AND RECOVER IF POSSIBLE. ABSORB WITH INERT MATERIAL AND PLACE IN A CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:DILUTE HYDROCHLORIC ACID/SULFURIC ACID

===== Handling and Storage =====

Handling and Storage Precautions:KEEP IN A TIGHTLY CLOSED CONTAINER; STORE IN A COOL, DRY, WELL-VENTILATED PLACE. PROTECT FROM PHYSICAL DAMAGE. SEPARATE FROM INCOMPATIBLE MATERIALS.

Other Precautions:PROTECT AGAINST DIRECT SUNLIGHT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:LOCAL EXHAUST

Protective Gloves:RUBBER, PVC

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. IMPERVIOUS CLOTHING TO PREVENT PROLONGED OR REPEATED SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Sup

plemental Safety and Health

===== Physical/Chemical Properties =====

HCC:B1

Boiling Pt:B.P. Text:97.0F,36.1C

Melt/Freeze Pt:M.P/F.P Text:-97F,-72C

Vapor Pres:115 MM HG

Vapor Density:1.2(AIR=1)

Spec Gravity:0.9 (WATER=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, WATER-WHITE LIQUID - STRONG PUNGENT AMMONIA ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACIDS, COPPER, ALUMINUM, PRO

PYLENE OXIDE, HALOGENS, GOLD, SILVER AND  
SILVER OXIDES, ACROLEIN, DIMETHYL SULFATE,  
Stability Condition to Avoid:HEAT, SPARKS & FLAME  
Hazardous Decomposition Products:OXIDES OF NITROGEN, AMMONIA WHEN  
HEATED TO DECOMPOSITION.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE  
AND FEDERAL REGULATIONS. DO NOT FLUSH DIRECTLY TO SEWER. RCRA RQ=  
1000 POUNDS.

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